

**To:** Hooper, Charles A.[Hooper.CharlesA@epa.gov]  
**From:** Weber, Rebecca  
**Sent:** Thur 12/31/2015 4:06:48 PM  
**Subject:** FW: Westlake

?

**From:** Juett, Lynn  
**Sent:** Wednesday, December 30, 2015 4:22 PM  
**To:** Peterson, Mary <Peterson.Mary@epa.gov>; Stoy, Alyse <Stoy.Alyse@epa.gov>; Brees, Angela <Brees.Angela@epa.gov>; Hooper, Charles A. <Hooper.CharlesA@epa.gov>; Mahler, Tom <mahler.tom@epa.gov>  
**Cc:** Weber, Rebecca <Weber.Rebecca@epa.gov>; Smith, Mark A. <Smith.Marka@epa.gov>; Beringer, Mike <Beringer.Michael@epa.gov>; Phillips, Todd <Phillips.Todd@epa.gov>; Tapp, Joshua <Tapp.Joshua@epa.gov>  
**Subject:** FW: Westlake

**FYI – I will also put the subject article on the “h” drive and let you know where to find it.**

Thank you,

**Lynn M. Juett**

Office of Regional Administrator/US EPA Region 7

11201 Renner Blvd, Lenexa KS 66219

(913) 551-7883 (d) / (913) 948-1129 (c)

**From:** Schmidt, Aaron [<mailto:aaron.schmidt@dnr.mo.gov>]  
**Sent:** Wednesday, December 30, 2015 4:17 PM  
**To:** Vann, Bradley <[Vann.Bradley@epa.gov](mailto:Vann.Bradley@epa.gov)>; Juett, Lynn <[Juett.Lynn@epa.gov](mailto:Juett.Lynn@epa.gov)>  
**Cc:** Garoutte, Jonathan <[Jonathan.Garoutte@health.mo.gov](mailto:Jonathan.Garoutte@health.mo.gov)>  
**Subject:** FW: Westlake

Contaminant of Concern isotope discussion associated with rad sites in StL.

**From:** Zlatic, Mike [<mailto:MZlatic@stlouisco.com>]  
**Sent:** Wednesday, December 30, 2015 4:11 PM  
**To:** Schmidt, Aaron; Nagel, Chris; Brad Vann; Ben Washburn; Garoutte, Jonathan; Erin Evans REHS  
**Subject:** Fwd: Westlake

FYI

Mike

**Michael J. Zlatic, PE, CHMM, QEP, REHS**

*Environmental Administrator*

*Saint Louis County Department of Public Health*

*Air Pollution Control, Healthy Homes/Lead, Waste Programs*

*Division of Environmental Protection*

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*e-mail: [mzlatic@stlouisco.com](mailto:mzlatic@stlouisco.com)*

Sent from my iPhone

Begin forwarded message:

**From:** "Khan, Faisal" <[FKhan@stlouisco.com](mailto:FKhan@stlouisco.com)>  
**Date:** December 30, 2015 at 2:43:11 PM CST  
**To:** "Patrick, Sarah" <[SPatrick@stlouisco.com](mailto:SPatrick@stlouisco.com)>, "Zlatic, Mike" <[MZlatic@stlouisco.com](mailto:MZlatic@stlouisco.com)>,

"Schmidt, Spring" <[SSchmidt@stlouisco.com](mailto:SSchmidt@stlouisco.com)>, "Donaldson, Kate" <[KDonaldson@stlouisco.com](mailto:KDonaldson@stlouisco.com)>, "Dalidowitz, Lara" <[LDalidowitz@stlouisco.com](mailto:LDalidowitz@stlouisco.com)>, "Kret, Jennifer" <[JKret@stlouisco.com](mailto:JKret@stlouisco.com)>, "Milward, Mark" <[MMilward@stlouisco.com](mailto:MMilward@stlouisco.com)>, "Yates, Laura" <[LYates@stlouisco.com](mailto:LYates@stlouisco.com)>, "Haasis, John" <[JHaasis@stlouisco.com](mailto:JHaasis@stlouisco.com)>  
**Subject: FW: Westlake**

FYI

**From:** Wagener, Jeff  
**Sent:** Wednesday, December 30, 2015 11:01 AM  
**To:** Khan, Faisal  
**Subject:** Westlake

Dr. Khan:

See below.

**From:** Schroeder, Kathy **On Behalf Of** Stenger, Steve  
**Sent:** Wednesday, December 30, 2015 10:52 AM  
**To:** Wagener, Jeff  
**Subject:** FW:

Jeff,

Just came to SVS in-box.

Kathy

**From:** Dawn Chapman [<mailto:> **Ex. 6 - Personal Privacy**]  
**Sent:** Wednesday, December 30, 2015 10:49 AM  
**To:** Bill Otto; Jill Schupp; [maria.chappellenadal@senate.mo.gov](mailto:maria.chappellenadal@senate.mo.gov); Stenger, Steve; Page, Sam; [Sue.Meredith@house.mo.gov](mailto:Sue.Meredith@house.mo.gov); Maria Chappelle-Nadal  
**Subject:**

This was just posted on Bob Alvarez facebook page. I had to purchase it and just got through reading it for at least the 10th time. It's only five pages and here are few excerpts that need to be focused on. Sorry for spelling and grammar...its 1 am in the morning. I will say this...they peer reviewed the hell out of this paper. This journal is very particular on what it publishes. The list of people who peer reviewed it is amazing. I sent this to one of my husbands chemists at Monsanto to get his opinion. From a scientific standpoint with all the scientists who peer reviewed it behind it, its bulletproof. I'm not sure how much more these people can take. I don't have to tell you all that we are absolutely at our breaking point. I have had CBS evening news call me twice today about EPA's barrier..or lack there of. They are telling National News that they are going to release it this week. I'm hoping for some sort of physical barrier. Cooling loops have failed twice at this site. Also, I will send you photos of flash flooding from the surface areas of contamination on the landfill. The images show one of the waterways where pb 210 was found.

The phrase unsupported pb 210 is used over and over. What this means is pb 210 found at levels by itself out of ratio with its parent isotopes...signally it is from enhanced radioactive production used during the Manhattan Project.

1.They used Fernald Ohio EPA CERCLA clean up levels for pb (lead) 210- which is radioactive. Fernald Ohio is the sister site to St. Louis. They received much of our waste and then some was sent back to Weldon at a later date. They are currently a FUSRAP site and have a Pilot Study Downwinder Program applied that allows residents to get medical screening. Pb (lead 210) appears to be the radioisotope EPA is most worried about that this site as well as others and is used by the agency to indicate off site migration. EPA Region 7 has never used this method at West Lake. FUSRAP has not used this method in the areas surrounding Coldwater Creek.

2. The samples were also taken from areas of Coldwater Creek, Latty Ave, and SLAPS to show correlation between levels found in known areas of off site contamination as well as around West Lake Landfill since it has the same waste.

Bottom of page 105-"Areas sampled were predominantly drainage channels and engineered waterways, along with surface soils in areas subject to flooding and rainfall runoff."

3. They were unable to get dust samples from homes around West Lake because of the class action litigation, but were able to get a few around Coldwater Creek. What they found indoors is very shocking.

Bottom of page 108- "For house dust samples, both 210Pb and 226Ra were detected in nine of 13 samples tested (Table 3). The small mass of some dust samples caused increased detection limits, and eight of 21 were too small to test at all. The range of 210Pb activities in dusts (<74 to 3790 Bq kg<sup>-1</sup>, n = 13) was higher than the range in soil samples (<37e350 Bq kg<sup>-1</sup>). More than 90% of the 210Pb in seven of 13 house dust samples tested was unsupported. The high percentage of unsupported 210Pb found in house dusts sampled near Coldwater Creek implies that there is an external source of 222Rn that is impacting the indoor environments at these homes."

4. Obviously radon is an issue, which was acknowledged by EPA and ATSDR most recent report. This study shows what happens to radon particles after they are released. They have a very short life as radon and decay into pb 210. I think from

discussions with each of your offices it should come as no surprise that they are finding it in drainage canals and pathways next to the landfill. This is common sense that after over 40 years of surface level radioactive waste, it would migrate off site to some extent. But the scariest sample was Spanish Village Park. This is an incredibly high level of radon that was detected. Radon was also detected at BMAC, which as you remember also had a high level of pb210 detected.

Bottom of page 109-"Among the in-situ radon in soil gas tests (n = 4), a Spanish Village sample collected adjacent to West Lake Landfill had 222Rn at >1330 Bq m<sup>3</sup> of soil gas. The remaining West Lake Landfill in-situ soil tests were non-detect for 222Rn at <15 Bq m<sup>3</sup>. Soil gas 222Rn activity was 4030 Bq m<sup>3</sup> at a public athletic field 0.6 km from the West Lake Landfill."

Attachments area

[Preview attachment Alvarez Journal 2015.pdf](#)

[Alvarez Journal 2015.pdf](#)

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